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UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT

5400549

<=1> GET 1st DRAWING SHEET OF 2

March 28, 1995

Insulated removable pond cover

REEXAM-LITIGATE: Industrial Environmental Concepts, Inc. v. Gary Chamness, et al., Filed Mar. 26, 1997, D.C. Minnesota (St. Paul), Doc. No. 97-740 RHK/FLN

APPL-NO: 08139835

FILED-DATE: October 22, 1993

GRANTED-DATE: March 28, 1995

CORE TERMS: pond, cable, casing, grommet, panel, insulated, insulation, removeable, linked, loop ...

08/828330

1/1 PLUSPAT - (C) QUESTEL-ORBIT
PN - US5400549 A 19950328 [US5400549]
STG - (A) United States patent
TI - (A) Insulated removable pond cover
IN - (A) MORGAN WILLIAM D (US)
IC - (A) E04B-007/00
AP - US13983593 19931022 [1993US-0139835]
PR - US13983593 19931022 [1993US-0139835]
EC - B09B-001/00C
- E04H-004/08
PCL - ORIGINAL (O) : 052023000; CROSS-REFERENCE (X) : 004498000 052005000
160231100
DT - Basic

1/1 LGST - (C) LEGSTAT
PN - US 5400549 [US5400549]
AP - US 139835/93 19931022 [1993US-0139835]
DT - US-P
ACT - 19931022 US/AE-A
APPLICATION DATA (PATENT)
{US 139835/93 19931022 [1993US-0139835]}
- 19950328 US/A
PATENT
UP - 1996-07

1/1 PAST - (C) Thomson Derwent
AN - 199715-000875
PN - 5400549 A [US5400549]
ACT - PATENT SUIT

1/1 LITA - (C) Thomson Derwent
AN - P1997-15-04
FS - PATENT (P)
PN - US5400549 19950328 (Utility)
PF - Industrial Environmental Concepts Incorporated
DF - Chamness Gary;
- Waste Management & Design Incorporated;
- Horizon Technology Incorporated
CT - MN
DN - 97-740 RHK-FLN
FD - 1997-03-26
ACT - A complaint was filed.

Search statement 2

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karen lehman

09/782234 Richardson

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Basic Patent (No,Kind,Date): US 5400549 A 19950328 <No. of Patents: 001>

Patent Family:

Patent No	Kind	Date	Applc No	Kind	Date
US 5400549	A	19950328	US 139835	A	19931022 (BASIC)

Priority Data (No,Kind,Date):

US 139835 A 19931022

PATENT FAMILY:

UNITED STATES OF AMERICA (US)

Patent (No,Kind,Date): US 5400549 A 19950328

INSULATED REMOVABLE POND COVER (English)

Patent Assignee: MORGAN WILLIAM D (US)

Author (Inventor): MORGAN WILLIAM D (US)

Priority (No,Kind,Date): US 139835 A 19931022

Applc (No,Kind,Date): US 139835 A 19931022

National Class: * 052023000; 052005000; 004498000; 160231100

IPC: * E04B-007/00

Derwent WPI Acc No: * G 95-138399; G 95-138399

Language of Document: English

UNITED STATES OF AMERICA (US)

Legal Status (No,Type,Date,Code,Text):

US 5400549	P	19931022	US AE	APPLICATION DATA (PATENT)
				(APPL. DATA (PATENT))
			US 139835 A	19931022

US 5400549	P	19950328	US A	PATENT
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karen lehman

* W E C O M E T O T H E *
* U. S. P A T E N T T E X T F I L E *
* * * * *

=> s cover

L1 455697 COVER

=> s pond or pool or tank or water

4501 POND
27294 POOL
145340 TANK
693286 WATER
L2 759189 POND OR POOL OR TANK OR WATER

=> s 11(p)12

L3 42086 L1(P)L2

=> s insulat##

L4 290285 INSULAT##
75% OF LIMIT FOR TOTAL ANSWERS REACHED

=> s 14(p)13

L5 3181 L4(P)L3

=> s grommet

L6 7921 GROMMET

=> s 15 and 16

L7 46 L5 AND L6

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30. 4,393,528, Jul. 19, 1983, Adjustable trampoline type pool and hot tub cover; Trent W. West, 4/498 [IMAGE AVAILABLE]
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32. 4,338,921, Jul. 13, 1982, Solar liquid heating system; Willard J. Harder, et al., 126/659, 615, 620, 623, 661, 904, 908 [IMAGE AVAILABLE]
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46. 3,784,733, Jan. 8, 1974, BUSHING FOR TRANSFORMERS AND THE LIKE; Donald J. Farmer, et al., 174/153R, 31R, 142 [IMAGE AVAILABLE]

=> d ab 2,4,9,11,19,25,27,29,30-32

ABSTRACT:

A sauna fabricated from a tubular metal space frame mounting a circular plywood seat and shrouded by a vinyl and thermal shield skin having a clear plastic thermoformed hinged door therein with a magnetic door latch. A manually-actuated, timer-controlled electric infrared heater is located in a domical array in the top of the space frame assembly with the innermost dome serving as a reflector for the infrared heater.

ABSTRACT:

A protective shell for a splice closure or the like has a flange base member and a flange cover member. A triangularly shaped ridge extends along each flange which hold triangularly shaped clamps in place against displacement, yet, in conjunction with the clamps, create room for the insertion of mounting hardware in the clamps. The closure is supported within the shell so that it is surrounded by space for an encapsulant. The supports for the closure are configured to permit passage of liquid encapsulant into the space between the bottom of the closure and the base member.

ABSTRACT:

A heating apparatus comprises a closed vessel having thermally conducting walls and containing a gas that is heated by one or more electrical heating elements in the vessel. The vessel is received in a duct through which air is blown. The air is heated by the heat transferred to the vessel walls by the gas in the vessel. Pressure and thermostatic switches in the circuit of the heating element communicate with the gas in the vessel and provide a double-safety, over-temperature power shut-off. The heating apparatus may be used to blow hot air into water in a tub through hoses leading to inlet openings or to an air distribution mat placed in the tub. The bubbles of hot air heat the water and produce strong agitation. A special raft receives the air distribution mat, which heats water in the raft by bubbling hot air through it. The heating apparatus can also be used for space heating, warming and drying towels and clothes, hair drying and grooming animals.

ABSTRACT:

An improved design and method of construction for spa or hot tub covers. The top panel and bottom panel of a first cover are each unitary and are heat sealed together to provide a superior moisture-proof cover. A second cover is constructed in the same manner and the two covers are hingedly attached together with a heat sealed flange integral with the top and bottom panels of each cover.

ABSTRACT:

A solar heating apparatus for a tank of water is disclosed which comprises a plurality of substantially planar, light absorbent strips positioned substantially vertically in spaced relationship in the water. The plurality of strips functions as a light trap for solar radiation.

ABSTRACT:

A modular passive solar energy storage system comprises a plurality of

heat tubes which are arranged to form a flat plate solar collector and are releasably connected to a water reservoir by, and are part of, double-walled heat exchangers which penetrate to the water reservoir and enhance the heat transfer characteristics between the collector and the reservoir. The flat plate collector-heat exchanger disassembly, the collector housing, and the reservoir are integrated into a relatively light weight, unitary structural system in which the reservoir is a primary structural element. In addition to light weight, the system features high efficiency and ease of assembly and maintenance.

US PAT NO: 4,487,065 [IMAGE AVAILABLE]

L7: 27 of 46

ABSTRACT:

A storage tank level monitoring apparatus and method for determining fluid levels in a storage tank. The apparatus of the present invention includes a magnet coated with rubber for holding a pivotally mounted housing to the interior of the storage tank and an ultrasonic transducer contained within the housing for generating acoustic pulses and for receiving reflections of the acoustic pulses for producing an analog signal proportional to the reflections, a string carrying a number of reference disks vertically oriented below the housing for producing a series of reflected acoustic signals from each reference disk, and a processor connected to the ultrasonic transducer for activating the transducer and for analyzing the reflected pulses for calibrating the apparatus for environmental changes in the atmosphere above the stored fluid and for determining the level of the stored fluid in the tank. The method of the present invention includes the steps of receiving reflected pulses from each reference disk only during certain window time intervals and to calibrate the system by adjusting for environmental conditions between the transducer and the fluid level.

US PAT NO: 4,401,100 [IMAGE AVAILABLE]

L7: 29 of 46

ABSTRACT:

A water heating system comprises a lower energy storage tank connected with a source of energy and an upper tank mounted on top of the lower. The upper tank may be a conventional water heater or a water storage tank connected at an outlet therefrom with an instantaneous type water heater, and the tanks are interconnected through a valve. The valve operates to direct incoming cold water through a heat exchanger in the lower tank for being preheated prior to introduction into the upper tank and accommodates a thermal siphon effect between the tanks when fresh water is not being supplied, whereby heat energy is automatically transferred from the lower to the upper tank. The lower tank may advantageously and economically comprise a conventional drum, for example a 55 gallon drum, and all system components are mounted in a cover assembly for the lower tank, so that the upper tank need not be specially fabricated, with the cover assembly also serving to support the upper tank.

US PAT NO: 4,393,528 [IMAGE AVAILABLE]

L7: 30 of 46

ABSTRACT:

A cover for covering pools having a pool coping elevated a predetermined height above the surface area surrounding the pool. A pair of spaced apart hinges are mounted to a rigid support adjacent the pool. A hinge arm is pivotally mounted in each hinge for pivoting about a pivot axis. Each arm is capable of rotation through a predetermined angle of rotation from a plane that is substantially normal to the pivot axis. Each hinge arm includes a clamp within which a rigid planar hoop that circumscribes the pool is secured. The hinge arm has an axis and the clamp has an axis oriented a predetermined clamp angle away from the axis of the arm. A panel spanning the central interior area of the hoop is secured to the hoop. The clamp angle and the angle of rotation in combination allow for adjustment of the hoop in the clamp in accordance with the shape of said hoop and the presence and elevation of the pool coping such that when the

panel covers the pool, the hoop lies in a horizontal plane. A resilient seal is attached to the one side of the panel for forming an air-tight seal with the panel such that when the panel covers the pool, the resilient seal contacts the surface area surrounding the pool for providing a substantially air-tight seal between the pool and the region enclosed by the cover.

US PAT NO: 4,385,474 [IMAGE AVAILABLE]

L7: 31 of 46

ABSTRACT:

A thermally and sonically insulating and weatherproofing cover for the roofs of mobile homes or like buildings comprises preformed or molded-in-situ slabs of expanded polystyrene bonded to the original roof surface, and a Neoprene-impregnated-fabric lamina stretched over the slabs and having downturned margins fastened to the upper side surfaces of the side walls of the building. The lamina margins are preferably provided with reinforced selvages having grommets to receive screws to fasten the lamina in place. An obtuse-angled trim strip desirably is employed to cover the grommets and screw heads. A gutter channel may be provided and be positioned to receive the lower edges of the lamina and the trim strip.

US PAT NO: 4,338,921 [IMAGE AVAILABLE]

L7: 32 of 46

ABSTRACT:

A solar liquid heating system having a collector receiving solar energy and heating a liquid. A liquid transfer pump moves the heated liquid to a heat transfer tank which heats water. The collector has a plate assembly mounted on a frame. Heat insulated bottoms, sides, and ends surrounded by the frame form an elongated chamber accommodating the plate assembly. The plate assembly has a plurality of side-by-side longitudinal plates. Adjacent plates have generally C-shaped sections that are located about a longitudinal tube for carrying liquid. Adjacent plates have lip and hook inter-connecting structures that cooperate with each other to clamp the tube between the C-shaped sections of the plates. The opposite ends of the tubes are connected to transverse tubular headers. The headers project through resilient grommets mounted on the sides of the frame. The top sides of the plate assembly are coated with black solar energy absorbing material. A light transparent cover encloses the plate assembly within the chamber of the collector.

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(FILE 'USPAT' ENTERED AT 14:26:54 ON 14 SEP 1998)

L1 0 S WASTE TREATMENT POND
L2 14 S WASTE TREATMENT POND
L3 7 S COVER AND L2
L4 175 S SOLAR POND
L5 50 S COVER AND L4
L6 19 S WASTE TREATMENT TANK
L7 401 S WASTE TREATMENT (P) TANK
L8 110 S L7 AND COVER
L9 2 S ANCHORING TRENCH
L10 171 S L2 OR L5 OR L8

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